

25X1

25X1

25X1

CLASSIFICATION CONFIDENTIAL

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

COUNTRY USSR

DATE DISTR. / May 1953

SUBJECT Kyanite in the USSR

NO. OF PAGES 1

PLACE
ACQUIRED

25X1

NO. OF ENCLS.
(LISTED BELOW)

25X1

DATE
ACQUIREDSUPPLEMENT TO
REPORT NO.

DATE OF INFORMATION

25X1

1.

As far as I know, in the USSR kyanites never occur in isolation and are never considered separately from the minerals of this group - the polymorphic modifications of the $Al_2O_3SiO_2$ compounds (andalusite, sillimanite and mullite). All of them are often found together, and all of them are used, even though it be in very small amounts, as alumina high refractories (glinozemnyye vysokogneupory). The deposits of minerals of this group are of hydrothermal origin. They occur in the form of pockets, lenses, stratified (plastovyye) lenses and layers (zalezhi). They are contained in metamorphic schists and secondary quartzites (predominantly Archaean).

2.

The Al_2O_3 content of the kyanites and other minerals of this group varies even within the same deposit. Although requirements are for an alumina content of at least 54% in these ores, in practice ores with a content of as low as 45% Al_2O_3 are used. In some ores the kyanite content sometimes amounts to as much as 98%.

3.

I know of a deposit of kyanite in the southern part of Yakutskaya ASSR, in the northern spurs of the Stanovoy Khrebet (range), 350 kilometers from Bol'shoy Never station (stantsiya B. Never). This is the so-called Chaynitskoye deposit. I know also of deposits in Kochkar'skiy Rayon in Chelyabinskaya Oblast - the Borisovskoye and Mikhaylovskoye deposits, and deposits on the Kem River in Shuyeret'skiy Rayon in Karel'skaya ASSR /now Karelo-Finnish SSR/. I also know of some deposits of andalusite.

- end -

25X1

CLASSIFICATION CONFIDENTIAL

DISTRIBUTION

QRR EV